



European shag

different seabird species use marine debris collected at sea or on land as nest materials



also studied in northern gannet but shags are more common with much more colonies



from

Votier SC, Archibald K, Morgan G & Morgan L 2011

The use of plastic debris as nesting material by a colonial seabird and associated entanglement mortality. Marine Pollution Bulletin 62: 168-172

abundance classes according to the number of items







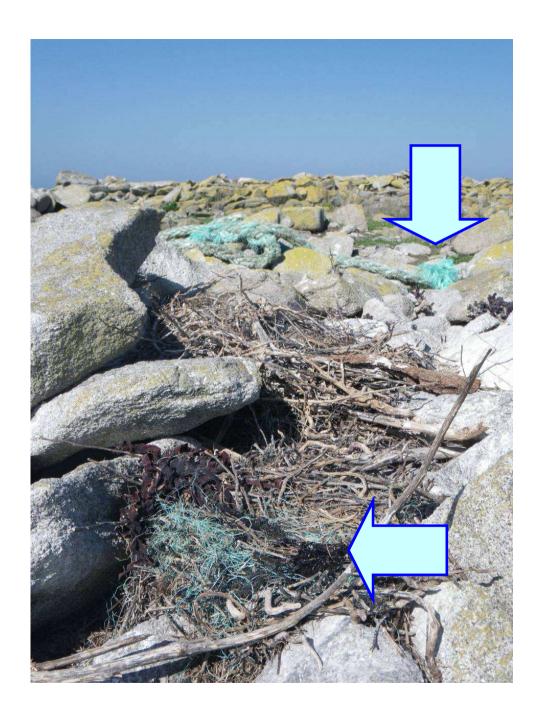




the number of different items of marine debris in the nest was visually evaluated without specific search in the nest cup



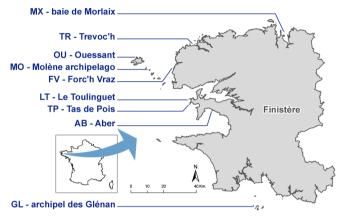




Glenan archipelago 2012:

use of pieces of an hawser stranded nearby on the islet





results obtained from 2010 to 2012 on different colonies in Western Brittany

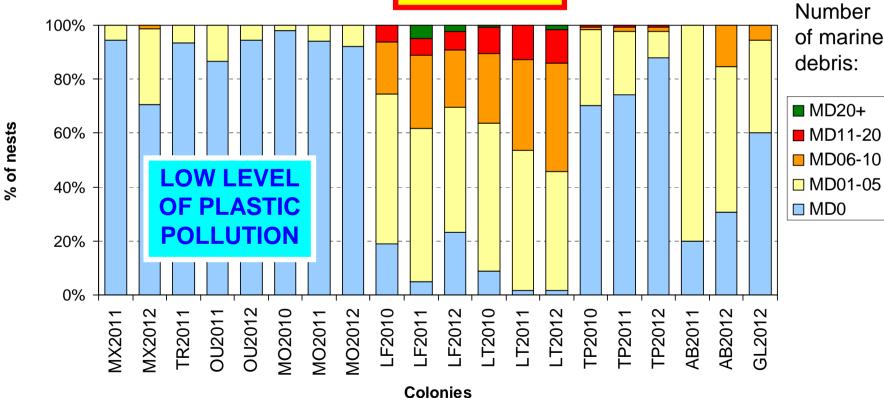




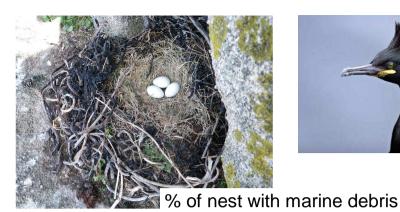






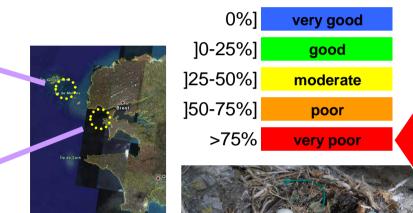


Molène archipelago ■ MD0 □ MD01-05 ■ MD06-10 ■ MD11-20 ■ MD20+ 8 % of nests GOOD with marine debris Toulinguet (Camaret)





Iroise



■ MD0 □ MD01-05 ■ MD06-10 ■ MD11-20 ■ MD20+ 98 % **VERY** of nests **POOR** with marine debris



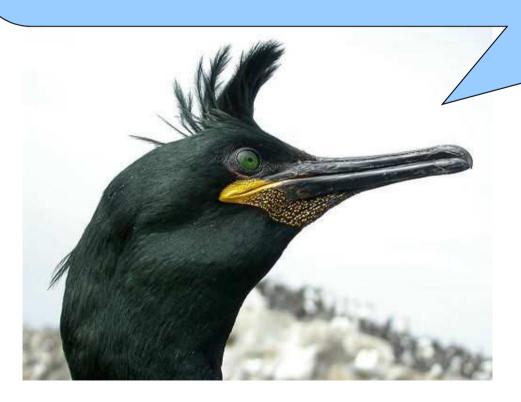
Indicator of marine pollution in the Iroise Marine Natural Park

further developments:

similar studies on colonies elsewhere in Brittany as well as in Normandy or in other French regions...

assessment of the usefulness of this indicator of marine pollution (see descriptor 10 Marine litter - Marine Strategy Framework Directive)...

analyse of marine currents in the study areas, which could explain the location of higher densities of floating debris in the vicinity of some breeding colonies...





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location of the colonies sampled in 2010-2012

